OPERATION & MAINTENANCE PLAN

For SHADOW RUN RANCH TM 5223

Preparation/Revision Date:

November 21, 2013

May 19, 2014

Prepared for:

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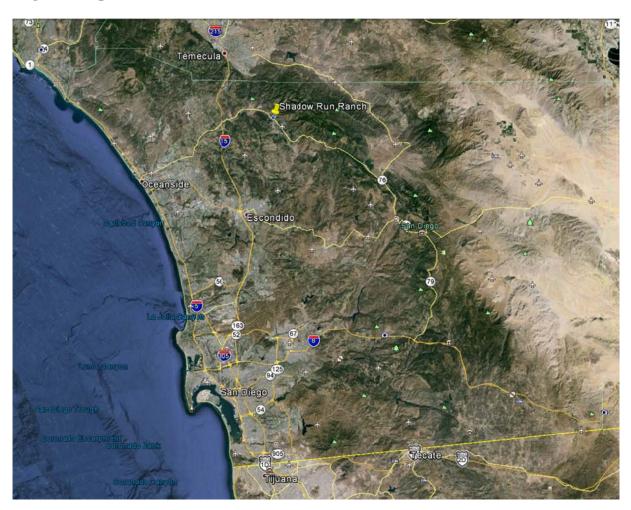
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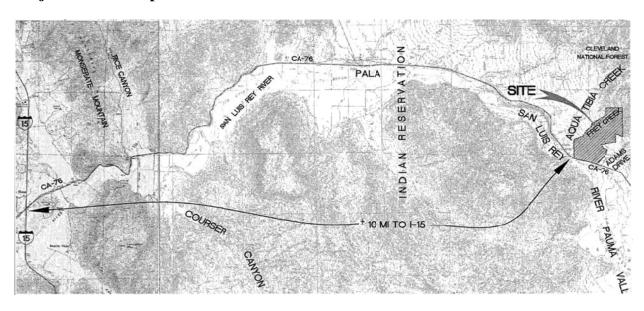
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Regional map:



Project location Map:



Attachment 5 - Reservoir O M - (05-19-2014).docx

Reservoir area:

1.0 Purpose of Document

The proposed project's HOA, County of San Diego as well as the ongoing agricultural operations and future home owners of the project are stakeholders in this Operations and Maintenance Plan (O&M). The following is an outline of the system and elements affected by this O&M. The operation and maintenance of the existing reservoir are the responsibility of the project proponent and their successors in title. They will enter into a MANAGEMENT AND DISCHARGE CONTROL MAINTENANCE AGREEMENT with the County of San Diego to implement this O&M. The operation and maintenance associated with the existing reservoir are discussed below. The discussion includes a routine action, maintenance indicator, field observation methods, frequency, and maintenance activity. Costs associated with each activity are included. The scope and purpose of this O&M is to ensure the operational items associated with the existing reservoir are working properly and the safety and stability of the reservoir are maintained at optimum working levels.

The Four primary maintenance areas for the reservoir are as follows:

- 1. Reservoir embankment [AREA 1]
 - a. Stability
 - b. Landscaping
 - c. Irrigation
 - d. Burrowing animals
- 2. Reservoir spillway [AREA 2]
 - a. Stability
 - b. Energy dissipaters
 - c. Scour
- 3. Reservoir drain lines [AREA-3]
 - a. Pipeline condition
 - b. Shutoff valves
 - c. Drain valves
- 4. Monitoring wells [AREA-4]
 - a. Depth to ground water

The landscape architect should choose plant coverage for slope protection and erosion control along the outer edge of the reservoir embankment that will be high in erosion control value with shallow root systems and which will deter small burrowing animals. The reservoir slope embankment shall be watered sparingly to maintain landscape coverage for erosion control.

2.0 Facilities and Resources

The facilities and resources identified to be managed and inspected are shown above and attached as graphic **EXHIBIT "A" - "RESERVOIR AREAS".** The management and inspection of the reservoir will be the responsibility of the ownership of the recreational open space lot 47 of TM 5223 (the homeowners association (HOA)). The property manager(s) of the

HOA shall at all times have a qualified grove manager(s) that will be employed by said HOA and have a set number of hours dedicated monthly to inspect and fill out inspection reports in conformance with this Operations and Maintenance Plan. The Grove Manager will receive onsite training in the proper maintenance and repair of the facility. The HOA shall dedicate \$6,000 yearly and have a reserve fund to anticipate any startup and ongoing maintenance of the reservoir systems. Additionally the reservoir shall be inspected by a registered Civil Engineer or registered Geologist on a yearly basis for any additional recommendations.

3.0 Operations

The goal of this O&M is to ensure safety and operational conditions of all reservoir systems on a monthly basis. This includes; testing the valves on the two (2) 6" irrigation/down drain lines and the one (1) 10" down drain line. These valves and pipes shall be maintained and operational so that they can be utilized in case of an emergency to drawdown ½ the reservoir capacity within 7 days, and completely drain the reservoir within 20 days.

The report shall contain, at a minimum, the following items: Example inspection report attached as Exhibit "B".

Inspection Protocol: Inspections will include:

- Date of inspection
- Reservoir level
- Water use in previous month
- Note any unusual signs of changed water levels
- Condition of the spillway
- Check scour and erosion
- Condition of the 6" drain line
- Condition of the 10" drain line

- Overall embankment stability
- Any signs of slope movement
- Any signs of seepage around or below reservoir
- Any rock falls nearby
- Vegetation control
- Control of burrowing animals
- Irrigation control
- Three existing monitoring wells

Inspections:

The grove manager shall visually inspect on a monthly basis, the entire slope embankment [Area 1] of the reservoir including the spillway [Area 2] looking for any settlement, surface cracking, burrowing animals, overwatering and seepage. In addition the (2) 6" drain line pipes and (1) 10" drain line pipe [Area 3] shall be tested monthly, to ensure the valves and drain capacities are working properly.

On a monthly basis, or if an earthquake is felt at or near the reservoir (as outlined below), measure and record the depth to groundwater in the three existing monitoring wells at the top of the reservoir embankment [Area 4]. The HOA shall be notified immediately if any substantially changed groundwater levels are indicated. The reports shall be submitted to the HOA and COSD within 10 working days of the date of the inspection and will be filed in the HOA manager's office and shall be stored for 5 years.

Special inspections:

If an earthquake occurs at or near the reservoir, or has been reported to occur, within the following criteria, immediate inspection shall be required:

- $M \ge 4.0$ w/in 25 miles,
- M > 5.0 w/in 50 miles.
- M > 6.0 w/in 75 miles
- $M \ge 7.0 \text{ w/in } 125 \text{ miles},$
- $M \ge 8.0$ w/in 200 miles,

If such an earthquake occurs, the following items shall be inspected and reported upon:

- Date of inspection
- Reservoir level
- Water use in previous month
- Note any unusual signs of changed water levels
- Condition of the spillway
- Check scour and erosion
- Condition of the 6" drain line
- Condition of the 10" drain line

- Overall embankment stability
- Any signs of slope movement
- Any signs of seepage around or below reservoir
- Any rock falls nearby
- Vegetation control
- Control of burrowing animals
- Irrigation control
- Three existing monitoring wells

Repairs recommended in the inspection reports shall be accomplished within: 10 working days, or immediately for repairs that are mandated by reservoir stability issues.

4.0 Maintenance / Repair

IMPLEMENTATION AND MAINTENANCE REQUIREMENTS

The primary maintenance requirements for the reservoir are as follows:

- Weed, prune, and water, especially during plant establishment
- Keep landscape healthy and clean
- The grounds, consisting of the inner embankment and the perimeter pad, shall be free of large deep rooted trees and bushes
- Maintain control of small burrowing animals
- When encountered burrowing animals shall be removed and any holes filled in

Aesthetic and Functional Maintenance:

Aesthetic maintenance is important for public acceptance of facilities. Functional maintenance is important for performance and safety reasons.

Both forms of maintenance will be combined into overall system maintenance.

Aesthetic Maintenance

The following activities will be included in the aesthetics maintenance program:

- Replace dead or dying plants.
- Weed Control.
- Weeds will be removed through mechanical means.
- Herbicide will not be used because these chemicals impact the water quality.
- Prune overgrown plants.

Functional Maintenance

Components of a Functional Maintenance program include Preventive Maintenance and Corrective Maintenance.

- a. **Preventive Maintenance -** Preventive maintenance activities to be instituted are:
 - Trash and Debris. During each inspection, debris and trash removal will be conducted.
 - Down drain outlet piping: Visual inspection of (2) 6" drain line pipes and (1) 10" drain line pipe shall be inspected and checked for leaking and or corrosive condition.
 - Test down drain system. During each inspection, each down drain pipe shall be tested. Open valves and check valves and piping for any leaking.

- Sediment Removal. Sediment accumulation, as part of the operation and maintenance program at the spillway, will be monitored quarterly during the dry season, and after every large storm (0.50 inch), and monthly during the wet season. If accumulation of debris or sediment is determined to cause of decline in design performance, prompt action (i.e., within ten working days) will be taken to restore to design performance standards. Actions will include removal of sediment. Characterization and appropriate disposal of sediment will comply with applicable local, county, state, or federal requirements.
- Removal of Standing Water Standing water must be removed if it contributes to the development of aquatic plant communities or mosquito breeding areas. Water standing for more than 96 hours will be removed.
- Fertilization Any vegetation seed mix will be designed so that fertilization and irrigation (after establishment of the planting) is not necessary. Fertilizers will not be used to maintain the vegetation.
- On a monthly basis, and if an earthquake is felt at or near the reservoir (as outlined above) measure and record the depth to groundwater in the three existing monitoring wells at the top of the reservoir embankment. Notify the HOA and the Geotechnical Engineer of Record immediately if any substantially changed groundwater levels are indicated.
- b. **Corrective Maintenance -** Corrective maintenance is required on an emergency or non-routine basis to correct problems and to restore the intended operation and safe function

Corrective maintenance activities include:

- Removal of Debris and Sediment Sediment, debris and trash, which impede the hydraulic functioning of reservoir spillway and vegetative growth, will be removed and properly disposed.
- Down drain outlet piping two (2) 6" drain line pipes and one (1) 10" drain line pipe. Paint exposed piping, poly-wrap pipe protection if necessary, replace damaged sections.
- Test down drain system. Replace valves if necessary.
- Embankment and Slope Repairs Damaged to slopes and embankments will be evidenced by erosion or collapsed surface areas. Once deemed necessary, damage to the slopes of the reservoir embankment will be repaired (within 10 working days).
- Erosion Repair Erosion will be evident by rills or small gullies in the surfaces of
 the reservoir embankment slope. Corrective steps will be taken to prevent loss of
 soil and any subsequent danger to the performance of the reservoir embankment.
 There are a number of corrective actions that can be taken. These include
 temporary measures such as erosion control blankets or reducing flow through the
 area. Designers or contractors will be consulted to address erosion problems if the
 solution is not evident.
- Elimination of Animal Burrows Animal burrows (evidenced by holes & mounds) will be filled and steps taken to remove the animals if burrowing

- problems continue to occur (filling and compacting). If the problem persists, vector control specialists will be consulted regarding removal steps. This consulting is necessary as the threat of rabies in some areas may necessitate the animals being destroyed rather than relocated. If the reservoir embankment performance is affected, abatement will begin. Otherwise, abatement will be performed annually in September.
- General Facility Maintenance In addition to the above elements of corrective maintenance, general corrective maintenance will address the overall facility and its associated components. If corrective maintenance is being done to one component, other components will be inspected to see if maintenance is needed.
- Replace dead or dying plant material.

Table 1: Shadow Run Ranch Reservoir Operations and Maintenance Plan Schedule

Action	Responsible Party	Frequency	Threshold for Action	Reporting Requirement
	,			•
Inspect	HOA, Grove	Monthly or	As regularly scheduled for	Reservoir
Embankment,	Manager	as needed	the month or after any	Maintenance
Reservoir,			ground shaking,	Record
Spillway			unexpected change in	Monthly
			water level, reported	Entry or after
			change in embankment	specific
			vegetation cover or report	incident
			of changes by residences.	
Inspect	HOA,	Annually	As regularly scheduled for	Reservoir
Embankment,	Geotechnical	or as	the year or as requested	Maintenance
Reservoir,	Engineer	needed	by HOA	Record
Spillway				Annual Entry
				or after
				specific call

 Table 2: Observations Triggering Non-Routine Maintenance and Repairs

No.	Inspection	Procedure	Trigger	Follow-up
1	Reservoir level	Determine normal range of elevation changes considering rainfall, humidity, temperature, grove irrigation rates, etc.	If the reservoir level drops more than 15% beyond the expected amount, and there is no visible leakage or seepage, or pipe leakage, contact the Geotechnical Engineer of Record (GER) immediately.	Geotechnical Engineer of Record shall perform an inspection within 10 calendar days and determine the cause of the unexpected drop in reservoir level. The GER shall recommend a repair and specify a deadline for the repair, based on the level of urgency of the problem.
2	Water use in previous month	C.F	See Item 1, above	
3	Note any unusual signs of changed water levels		See Item 1, above	
4	Condition of the spillway	Inspect per Section 4 of the report.	If there are any cracks, or leaks in the spillway, contact the Civil Engineer of Record (CER) immediately.	The CER shall perform an inspection within 10 calendar days and determine the cause of the leaks or cracks. The CER shall recommend a repair and specify a deadline for the repair, based on the level of urgency of the problem.
5	Check scour and erosion	Inspect per Section 4 of the report.	If there is any evidence of excessive (more than 6") scour or erosion below the	The CER shall perform an inspection within 10 calendar days and determine the cause of the excessive scour or

			spillway, or on the embankment, contact the Civil Engineer of Record (CER). Otherwise, follow the procedures in Section 4 of the report.	erosion. The CER shall recommend a repair and specify a deadline for the repair, based on the level of urgency of the problem.
6	Condition of the 6" drain line	Inspect per Section 4 of the report.	If valves do not operate properly, repair or replace within 14 calendar days.	
7	Condition of the 10" drain line	Inspect per Section 4 of the report.	If valves do not operate properly, repair or replace within 14 calendar days.	
8	Overall embankment stability	Inspect per Section 4 of the report.	If there are signs of movement of the embankment, contact the GER immediately.	Consult with the GER immediately to determine if an immediate evacuation is necessary. Otherwise the GER shall perform an inspection within 24 hours and determine the cause of the embankment movement. The GER shall recommend a repair and specify a deadline for the repair, based on the level of urgency of the problem.
9	Any signs of slope movement	See Item 8, above.		

10	Any signs of seepage around or below reservoir	Inspect per Section 4 of the report.	If there are signs of excessive seepage of the embankment, contact the GER immediately.	Consult with the GER immediately to determine if an immediate evacuation is necessary. Otherwise the GER shall perform an inspection within 24 hours and determine the cause of the seepage. The GER shall recommend a repair and specify a deadline for the repair, based on the level of urgency of the problem.
11	Any rock falls nearby	Inspect per Section 4 of the report.	If the rock falls are indicative of movement of the embankment or the immediately adjacent soils or rocks, contact the GER immediately.	Consult with the GER immediately to determine if an immediate evacuation is necessary. Otherwise the GER shall perform an inspection within 24 hours and determine the cause of the rockfall. The GER shall recommend a repair and specify a deadline for the repair, based on the level of urgency of the problem.
12	Vegetation control	Inspect, maintain and repair per Section 4 of the report.		
13	Control of burrowing animals	Inspect, maintain and repair per		

		Section 4 of the report.		
14	Irrigation control	Check for overwatering.	Adjust irrigation rate.	
15	Three existing monitoring wells	Inspect, maintain and repair per Section 4 of the report. Determine the normal relationship between the water level in the wells and the reservoir.	If the water level in the wells does not follow the normal relationship between the wells and the reservoir, contact the GER immediately.	Consult with the GER immediately to determine if an immediate evacuation is necessary. Otherwise the GER shall perform an inspection within 10 calendar days and determine the cause of the rockfall. The GER shall recommend a repair and specify a deadline for the repair, based on the level of urgency of the problem.

Regulatory Assurance

Maintenance is assured by the Major Use Permit # ____ and conditions of approval, as well as a MANAGEMENT AND DISCHARGE CONTROL MAINTENANCE AGREEMENT with the County of San Diego, which will be recorded against the property and run with the land.

Maintenance Costs

A detailed cost breakdown for the operation & maintenance of each area / system are attached and made part of this document. Total estimated annual costs for each are:

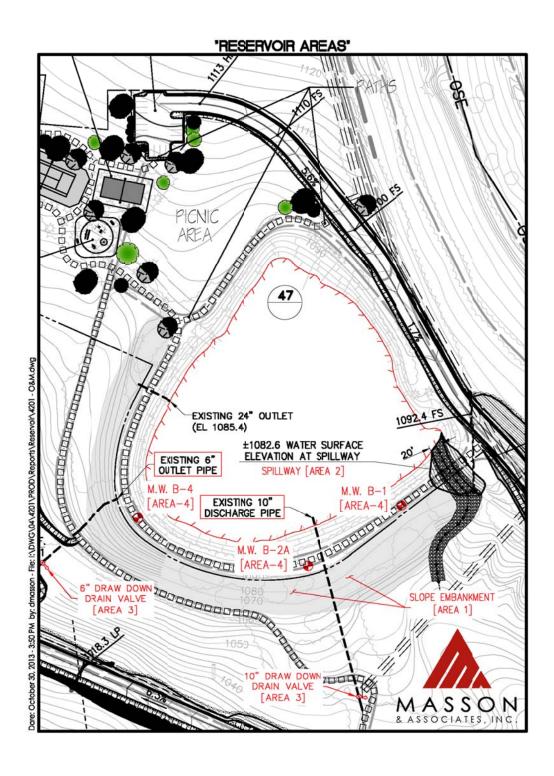
Reservoir embankment = \$2000 Down drain piping = \$500 Water valves = \$500 Landscaping = \$2000 Irrigation = \$500 Burrowing animals = \$500 Total -------\$6000 yearly.

Inspection Frequency

- All items above will be monitored monthly and after every large storm (rainfall of 0.50 inch or more).
- After each seismic event as listed above.

Each inspection will be fully documented and made available upon request. Records will be kept for a minimum of 5 years.

Sherrill Schoepe Shadow Run Ranch, LLC Post Office Box 1249 Pauma Valley, CA 92061



ENGINEERS INSPECTION REPORT
OFFICE OF THE STATE ENGINEER-DIVISION OF WATER RESOURCES - DAM SAFETY BRANCH
1313 Sherman Street, Room 818, Denver, CO 80203, (303) 866-3581

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DORESS			ZIP CODE				
			CONTACT PHONE				
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Comments:	27) SUDE (28) SOF	AREAS LJ (29) OTHER.		delines on Back	G000	ACCEPTABLE	DOWNSTRE/
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GUIDELINES FOR DETERMINING CONDITIONS

CONDITIONS OBSERVED - APPLIES TO UPSTREAM SLOPE, CREST, DOWNSTREAM SLOPE, OUTLET, SPILLWAY

GOOD

ACCEPTABLE

POOR

POOR

In general, this part of the structure has a near new appearance, and conditions observed in this area do not appear to threater the safety of the dam.

Although general cross-section is maintained, surfaces may be irregular, eroded, rutted, spalled, or otherwise not in new condition. Conditions in this area do not currently appear to threa:en the safety of the dam.

Conditions observed in this area appear to threaten the safety of the dam.

CONDITIONS OBSERVED - APPLIES TO SEEPAGE

GOOD

ACCEPTABLE

No evidence of uncontrolled seepage. No drains All seepage is learned to threaten the safety of the dam.

Some seepage exists at areas other than the drain outfalls, or other designed drains. No unexplained increase in seepage. All seepage is clear. Seepage conditions observed do not currently appear to threaten the safety of the dam.

Seepage conditions observed appear to threaten the safety of the dam. Examples: 1) Designed drain or seepage flows have increased without increase in reservoir level. 2) Drain or seepage flows contain sediment, i.e., muddy water or particles in jar samples. 3) Widespread seepage, concertrated seepage or ponding appears to threaten the safety of the dam.

CONDITIONS OBSERVED - APPLIES TO MONITORING

GOOD

ACCEPTABLE

POOR

Monitoring includes movement surveys and leakage measurements for all dams, and piezometer readings for Class I dams. Instrumentation is in reliable, working condition. A plan for monitoring the instrumentation and analyzing results by the owner's engineer is in effect. Periodic inspections by owner's engineer.

Monitoring includes movement surveys and leakage measurements for Class I & II dams, leakage measurements for Class II dams. Instrumentation is in serviceable condition. A plan for monitoring instrumentation is in effect by owner. Periodic inspections by owner or representative. OR, NO MONITORING REQUIRED. All instrumentation and monitoring described under "ACCEPTABLE" here for each class of dam, are not provided, or required periodic readings are not being made, or unexplained changes in readings are not reacted to by the

CONDITIONS OBSERVED - APPLIES TO MAINTENANCE AND REPAIR

GOOD

ACCEPTABLE

POOR

Dam appears to receive effective on-going maintenance and repair, and only a few minor items may need to be addressed.

Dam appears to receive maintenance, but some maintenance items need to be addressed. No major repairs are required.

Dam does not appear to receive adequate maintenance. One or more items needing maintenance or repair has begun to threaten the safety of the dam.

OVERALL CONDITIONS

SATISFACTORY

The safety inspection indicates no conditions that appear to threaten the safety of the dan, and the dam is expected to perform satisfactorily under all design loading conditions. Most of the required monitoring is being performed.

CONDITIONALLY SATISFACTORY

The safety inspection indicates symptoms of possible structural distress (seepage, evidence of minor displacements, etc.), which, it conditions worsen could lead to the failure of the dam. Essential monitoring, inspection, and maintenance must be performed as a requirement for continued full or reduced storage in the reservoir.

UNSATISFACTORY

The safely inspection indicates definite signs of structural distress (excessive seepage, cracks, slides, sinkholes, severe deterioration, etc.), which could lead to the failure of the dam if the reservoir is used to full capacity. The dam is judged unsafe for full storage of water.

SAFE STORAGE LEVEL

FULL STORAGE

Dam may be used to full capacity with no con-

CONDITIONAL FULL STORAGE

Dam may be used to full storage if certain monitoring, maintenance, or operational conditions are met.

RESTRICTION

Dam may not be used to full capacity, but must be operated at some reduced level in the interest of public safety.

CLASSIFICATION OF DAMS

CLASS I

CLASS I

CLASS II

Class I - Loss of human life is expected in the event of failure of the dam, while the reservoir is at the high water line.

Class II - Significant damage to improved property is expected in the event of failure of the dam while the reservoir is at the high water line, but no loss of human life is expected.

Class III - Loss of human life is not expected, and damage to improved property is expected to be snall, in the event of failure of the dam while the reservoir is at high water line.

DAM NAME:	DAM I.D.:	_ DATE			1
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e 0	114) SURVEY MONUMENTS (115) OTHER			m l	RIA
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	65) RODENT ACTIVITY ON UPSTREAM SLOPE, CREST, DOWNSTREAM SLOPE, TOE [166] DETERIORATED CONCRETE-FACING, DUTLET, SPILLWAY				25.5
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□ 7	1 SATISFACTORY 72 CONDITIONALLY SATISFACTORY 73 UNSATISFACTORY				Ö
	ITEMS REQUIRING ACTION BY OWNER		_	_	
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0 . 7 d .	(92) PERFORM A GEOTECHNICAL INVESTIGATION TO EVALUATE THE STABILITY OF THE DAM:		_	_	
20 E			_	_	
- F . E .	(93) PERFORM A HYDROLOGIC STUDY TO DETERMINE REQUIRED SPILLWAY SIZE:		-	_	_
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2 C 7 2 8	(95) SET UP A MONITORING SYSTEM INCLUDING WORK SHEETS, REDUCED DATA AND GRAPHED RESULTS:		_	_	_
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Who	(98) OTHER		_	_	
			_		
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REASON FOR	R RESTRICTION				
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DC-22-2649a	1-86 INSPECTED BY OWNER/OWNER'S REPRESENTATIVE			nn 2	of

